

AMENDMENTS TO THE CLAIMS:

- This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-7 (cancelled).

8. (New) A varactor diode alternative circuit, comprising:

at least three varactor diodes that are in each case connected in series alternately opposite to one another; and

at least one of a resistor network and an inductor network, the at least one of the resistor network and the inductor network coupled to the at least three varactor diodes;

wherein, at each of the varactor diodes, a control voltage supplied to the circuit for adjusting capacitance is applied at least approximately at full extent, and an alternating voltage that is applied at the series connection of the varactor diodes, which is at a higher frequency compared to the control voltage, is distributed at least approximately uniformly to the varactor diodes.

9. (New) The varactor diode alternative circuit as recited in claim 8, wherein the at least one of the resistor network and the inductor network is arranged so that anodes of the varactor diodes, with respect to the control voltage supplied to the circuit, are connected to a first electrical potential, and cathodes of the varactor diodes, with respect to the control voltage, are connected to a second electrical potential that is higher, by the control voltage, compared to the first electrical potential.

10. (New) The varactor diode alternative circuit as recited in claim 8, wherein:

the at least three varactor diodes include one of an odd number of varactor diodes or an odd number of parallel connections of varactor diodes;

at each node of the series connection, respectively either anodes of the varactor diodes or cathodes of the varactor diodes are connected to one another;

nodes of the anodes lying between outside terminals are connected via at least one of resistors and inductors to the anode of a varactor diode whose anode forms a first outside terminal of the alternative circuit; and

nodes of the cathodes lying between the outside terminals are connected via at least one of resistors and inductors to the cathode of a varactor diode whose cathode forms a second outside terminal of the circuit.

11. (New) The varactor diode alternative circuit as recited in claim 8, wherein:

the at least three varactor diodes includes one of an even number of varactor diodes or an even number of parallel connections of varactor diodes;

at each node of the series connection, respectively either anodes of the diodes or cathodes of the diodes being connected to one another;

the nodes of the anodes lying between the outside terminals being connected via resistors and/or inductors to the anodes of those diodes whose anodes form a first outside terminal and a second outside terminal of the alternative circuit; and

nodes of the cathodes lying between the outside terminals are connected to at least one of resistors and inductors whose second terminals form the control voltage terminal for supplying the control voltage setting the capacitance.

12. (New) The varactor diode alternative circuit as recited in claim 8, wherein:

the at least three varactor diodes include one of an even number of varactor diodes or an even number of parallel connections of varactor diodes;

at each node of the series connection, respectively either anodes of the varactor diodes or cathodes of the varactor diodes are connected to one another;

nodes of the cathodes lying between outside terminals are connected via at least one of resistors and inductors to the cathodes of the varactor diodes whose cathodes form a first outside terminal and a second outside terminal of the alternative circuit; and

nodes of the anodes lying between the outside terminals being connected to one of resistors or inductors whose second terminals form the control voltage terminal for supplying the control voltage to set the capacitance.

13. (New) The varactor diode alternative circuit as recited in claim 8, wherein:

at each node of the series connection, respectively one of anodes of the varactor diodes or cathodes of the varactor diodes are connected to one another;

the anodes are connected to a first additional terminal via at least one of resistors and inductors; and

the cathodes are connected via at least one of resistors and inductors to a second, additional terminal, the first and second additional terminals being used for supplying the control voltage to set the capacitance.

14. (New) An electrical circuit device or an electrical unit, comprising:

a varactor diode alternative circuit including at least three varactor diodes that are in each case connected in series alternately opposite to one another; and at least one of a resistor network and an inductor network, the at least one of the resistor network and the inductor network coupled to the at least three varactor diodes, wherein, at each of the varactor diodes, a control voltage supplied to the circuit for adjusting capacitance is applied at least approximately at full extent, and an alternating voltage that is applied at the series connection of the varactor diodes, which is at a higher frequency compared to the control voltage, is distributed at least approximately uniformly to the varactor diodes.